

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Brian J. Pangrle on 05/24/11.

The application has been amended as follows:

In the Claims

2. In claim 1, line 3 "accommodated in a compressor housing, via a shaft" has been replaced by "wherein the compressor wheel is accommodated in compressor housing and is driven in a rotational manner by the motor via a shaft".

3. In claim 1, line 9 and claim 23, line 12 "the axis" has been replaced by "a rotational axis".

4. In claims 7, 28, 29, 39 and 40, line 2 "the radial direction" has been replaced by "a radial direction".

5. In claim 10, line 13 ; claim 32 ,line 20 and claim 45,lines 24-25 "the axis of the compressor housing " has been replaced by " an axial axis passing through the center of the compressor housing".

6. In claim 23, line 3 "further comprising" has been replaced by "the turbocharger further comprising".

Art Unit: 3746

7. In claim 23, line 6 and claim 46, line 6 “electric motor” has been replaced by “center housing”.

8. In claim 36, line 2 “on a circle around the axis of the compressor housing” has been deleted.

9. In re claim 32, line 8 and claim 45, line 10 “can additionally” has been replaced by “also configured to alternately”.

10. The above change is made to put the claim in allowable condition.

Reasons for Allowance

11. The following is an examiner’s statement of reasons for allowance per MPEP 1302.

12. Claims 1-3,5-13,15-21,23-25,27-42,45,46 are deemed to be directed to a non-obvious improvement over Allen et al (6449950) and Mayleben et al. (6443715).

13. Claim 1, 10, 23, 32 and 45 are directed to an improvement in a turbo chamber assembly wherein the electric motor comprises a circuit board which is located coaxial to a volute of the compressor housing along a line between the volute and the compressor wheel. Allen et al. disclose a similar electric motor configured for accommodation by a turbocharger but lacks a circuit board which is located coaxial to a volute of the compressor housing along a line between the volute and the compressor wheel. Although Mayleben et al teach a circuit board disposed coaxial to a volute of a compressor housing it is not located coaxial to a

Art Unit: 3746

volute of the compressor housing along a line between the volute and the compressor wheel. Such specific arrangement of the circuit board, as claimed by the applicant, reduces cumbersomeness and is critical to avoid the risk of short circuit caused by twisting wire passages.

Thus In the examiner's opinion, it would not have been obvious to a person of ordinary skill in the art to modify the turbocharger of Allen et al. by incorporating the circuit board as taught by Mayleben et al. to arrive at Applicant's invention since the references fail to teach the specific spatial location of the circuit board in relation to the volute of the compressor housing and the compressor wheel. .

Conclusion

14. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amene S. Bayou whose telephone number is 571-270-3214. The examiner can normally be reached on Monday-Thursday, 9:00 am-5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Devon Kramer can be reached on 571-272-7118. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may

Art Unit: 3746

be obtained from the Patent Application Information Retrieval (PAIR) system.

Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Devon C Kramer/
Supervisory Patent Examiner, Art
Unit 3746

/Amene S Bayou/

Examiner, Art Unit 3746